CHORNET

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California State University
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Hornet Error Grants Extra $31,000 to Evaluations



Photography by DOUG TAGGART

Senate member Harry Aron

by JUDY RONNINGEN

The controversy surrounding faculty evaluations continues, but contrary to the figure reported in yesterday's Hornet article, the stakes are not nearly so high.

While the amount of the proposed funding is still uncertain, Faculty Evaluations coordinator David Shell says that the total for the two-year experiment is closer to $5,000 than to the $36,000 figure quoted yesterday.

He said that the original $36,000 proposal considered by the Faculty Senate had been cut $18,000 by the Hornet Bookstore's offer to pay publication costs (later discovered to be closer to $2,000) and cut another $14,000 by substitution of volunteer for paid staff members.

Further, he joined Student Body Vice-President Tannis Ybarra in denying that any of the money will come from student funds. Ybarra stated that a proposal for $4,120 to pay a director and two typists was rejected by the Student Senate, and that a second request for $1,500 has been tabled.

Shell assumes that acceptance of the proposal by both the Faculty Senate and University President James Bond indicates that the University will be willing to foot at least part of the bill.

During Faculty Senate consideration of the proposal, a student on the faculty evaluations staff said that he understands that the University would provide approximately $1,000 worth of computer time if the proposal was approved by the Senate.

About $80.00 worth of clerical supplies, material donated from schools and departments, and about $2,400 worth of Opscan (answer) sheets over the two-year period is also involved.

Richard Morrison, Associate Dean of Students, said that to his knowledge, the Administration was aware of the computer costs and $300.00 worth of Opscan sheets being used this semester.

"That budget (the one approved by Dr. Bond) is a plan—that doesn't represent a specific commitment on the part of the University," continued Morrison.

Dr. Bond, out of town, was unavailable for comment.

Hornet staff writer Terry Snyder said that he first received the erroneous $36,000 figure from Harry Aron, a staunch opponent of the proposal.

Dr. Aron replied that the $36,000 figure had been the one proposed to the Faculty Senate, and that Senate members had been told "that a possible source of funding was the Student Senate." He had evidently not learned of changes in the size or source of funds since the November 22 meeting.

Aron said he had given that information to Snyder.

Snyder apologized for carelessly reporting an incorrect sum, but insisted that he had checked the source of funding with the Faculty Evaluations staff by telephone.

He recalled asking a member of the staff for the source of the funds. After she consulted with David Shell, she replied that the Student Senate was paying for the program.

Shell has further denied making any statement that mandatory evaluations were foreseeable in the future and that "In two years we can accomplish this."

Reporter Snyder firmly disagrees, quoting the following dialogue from his notes:

Snyder: "Do you think in the future that this can be made mandatory?"

Shell: "Yes, in two years we can accomplish this."

Shell maintains that he has been fighting to keep faculty evaluations voluntary, because he knows that the results of mandatory evaluations cannot legally be printed for public use, under Title Five of the California State Education Code.

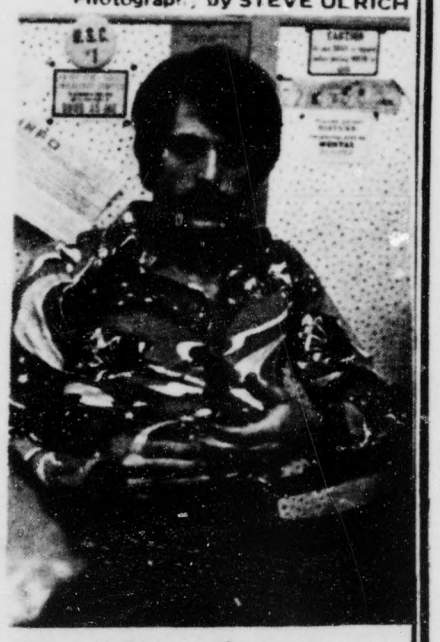
He added that, because of the way the evaluation process is set up, faculty members need not be concerned that the Administration will use the evaluations against them.

Computer read-outs that

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David Shell Replies

Photograph by STEVE ULRICH



Editor, Hornet

I read the article printed in Tuesday's Hornet with fascination. The picture seemed to resemble me, and the name was mine, but the article in large didn't reflect the nature of the faculty evaluation being conducted on campus. In my opinion the figure of $36,000 quoted in the article was nothing but a misprint and I would be happy to have it amended to the true figure of $80.00, none of which came from the Student Government. There have been many hours spent by a number of students, faculty members, and administrators to make a voluntary evaluation a realization on this campus. I believe that I was clear to the reported who interviewed me as to the nature of the evaluation which would have 100% participation on a voluntary basis, and am totally opposed to a mandatory evaluation of any kind.

To update information, 70.3% of the faculty are having their courses evaluated. This in no way connotes apathy on the part of the students or faculty. Misrepresentation of this sort is inexcusable, and I feel that the charge of apathy needs to be retracted.

In regards to statements attributed to H. Aron, I will respect his opinions and not reply to his sound and fury, which signify nothing.

David Shell



Photography by DOUG TAGGART

Peter Shattuck, Faculty Senate Chair

Senate Chair Writes

Editor, Hornet

I'd like to comment on several aspects of your article on the faculty evaluation currently being conducted. In addition to having the accompaning photograph printed in reverse, the article contains several factual errors. First, the Student Senate is not funding the project "to the tune of $36,000." That figure was the estimated cost for full funding of the project over a two year period. At present, the project is operating on far less than full funding - $35,920 less - depending largely for its success on the intensive voluntary efforts of David Shell, Chris Robertson, and other student, faculty, administration, and staff members of a sub-committee of the Student Advising Committee. The project has received no money from the Student Senate. Second, contrary to the inaccurate quote attributed to David Shell, no plans exist for a mandatory evaluation; in my estimation, the Faculty Senate would not approve any provision for mandatory evaluation.

I must also take issue with the comments attributed to Professor Harry Aron. If indeed he said what he is quoted as saying, he has displayed a degree of intellectual arrogance which I find surprising. Professor Aron argued against the evaluation proposal during the Senate debate. Despite his eloquent and extensive presentation, the Senate passed the measure by a vote of 25-12. Professor Aron clearly expressed his philosophical disagreement with the proposal. He argued from a respectable academic tradition, but he failed to convince his Senate colleagues that students are utterly incapable of assessing the quality of teaching Now he asserts that those who disagreed with him are simply stupid. We may be misguided, we may be wrong, we may lack Professor Aron's brilliance. However, I'm not convinced that we are stupid in finding value in the considered judgment of the people we teach. In my own experience, faculty evaluations conducted within the History Department have been highly enlightening and extremely valuable.

Professor Aron is also quoted as saying that other programs, such as the child care center, student loans and EOP are more deserving of funding than faculty evaluation program. This is an interesting debating device. Certainly Professor Aron is correct if he is saying that these projects deserve far more

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LETTERS

Safeway Should DONATE Alhambra

Mr. Editor:

If Alhambra Theatre is torn down to make way for the Safeway Stores Inc., only the Sacramento Community will lose out. How many historically interesting places are there in Sacramento besides the Alhambra Theatre? In Europe buildings of historical value are preserved and treasured as anyone who has been in Europe can attest to. Alhambra can be more than a historical museum, it can be a functional asset of the Sacramento Community where live performances can take place by groups touring U.S. from all parts of the world, and at a small additional expenditure to the City or the County.

It's structural soundness can be verified by talking to the City Engineer who has stated several times over, in response to letters from the Alhambra Group, that the "Alhambra Theatre will stand up for another 100 years" unless destroyed by men.

It's acoustical qualities are superior to anything that exists presently on the West Coast or anywhere in the MidWestern part of the U.S. According to Dr. Geeting from Sacramento State University who did extensive acoustical testing on Alhambra two years ago, Alhambra's acousitcal qualities are nearly pertect. Secondly there are no obstructional columns such as one sees nearly in every theatre. Those who have seen Eleonor Chandler Memorial Pavillion in Los Angeles know how beautiful it is, yet, its acoustical soundness does not measure up to that of Alhambra Theatre and at the expenditure of many more millions.



Safeway tries to prove to the Sacramento Community that it has the community's interests at heart. If this be the case, why doesn't the SAFEWAY DONATE the Alhambra Theatre to the Sacramento and improve its image in this Community? Why does Safeway want to put up a "beautiful" Safeway where no one wants to or will appreciate its esthetic beauty? It has several other stores locked up, standing empty, on which it takes a tax loss while the citizens of this community pay for this out of their own pocket. Why does it need another store to be later paddlocked, an ugly sight to the Alhambra street merchants and a reminder to the people of Sacramento what Safeway is all about. I have grave doubts that any people living nearby will shop there remembering what Alhambra was like.

The Sacramento Jr. Chamber of Commerce has resolution on file which states "...that the beautiful Alhambra Theatre...a historical monument...be preserved." Majority of the more than 1000 civic and other organizations in Sacramento area including the Historical Societies of California and Sacramento want the Alhambra preserved. Federal Landmark Society is considering the same possibility. All this is verifiable from newspaper clippings and the many letters of support the Board of Directors of "Save the Alhambra" which includes such prominent people as Sacramento Symphony Music Director, Harry Newstone, former Vice-Mayor and attorney, Milt McGee and others, have on file.

If the interest of the Sacramento Community is at heart of Safeway Stores Inc., represented by their Thomas L. Allen, Public Relations Manager, and this he specifically stated to me at one of our meetings, Why is Safeway FORCING upon the Sacramento people a store in the area nobody needs and wants? Sacramentans for the most part do not realize what an asset to their community Alhambra can be since given few years the City Council will decide that Sacramento will need another, better performing arts theatre and will force upon the Sacramentans another Convention Center costing 15 to 20 million dollars. Now if it can wake up it can have such a building for less than a million dollars.

And Safeway, why not improve your image in this community and donate Safeway Alhambra to the Sacramento Community?

Redor I. Dubenko
A concerned student

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The STATE HORNET

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Black Woman's Objections Justified

Dear Editor:

In the Tuesday edition of the Hornet, there was a letter entitled "Black Woman Objects." I think that her objection to Hornet policy was well-justified (though not necessarily for the reasons she noted).

You see, I don't think you were trying - consciously - to be racist. We all know, after all, that that is not nice and liberal -- and further, that you all want to have a nice and liberal paper.

But, there, is, as Ms. Duncan notes, an inherent ambiguity surrounding your recent abortion article that leaves much to be desired. Not only did this ambiguity prevail in the recent article about abortion, but it has come out in other articles -- in other statements -- throughout the past semester. (The articles about Asian American studies, early in the year; the absurd response to a "prude's" letter, which though it later proved to be a farce, was not so proven when you responded to it - remember?)

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Back to the subject at hand. You see, it is important that Ms. Duncan (as well as all the other students on this campus) understand why a Black abortionist was used. You say that the author may have been Black or that the story may have been true. Why don't you know?

I would suggest that you do not dismiss Ms. Duncan and her anger so easily.

CSUS student

No Comment Necessary

To the Editor

You will not print the following statements, unless it is that you would like to allow a student to present the other side of the case.

In reference to the Experimental Studies Program; I read this program and as the result of a FLASH OF FIRE, I submit the following statements:
THIS IF FOR THE BIRDS

If they are of a feather, they flock to-gether you know.

If these student instructors are so efficient WHY ARE THEY HANGING AROUND THE UNIVERSITY? If they want to operate a school, why do they not extablish a school someplace other than within an existing University? There is a two part answer to this question.

One, to start a school one must have students.

Two, to operate a school one must have money.

I know how they get the students, they DUPE them. My big concern is: HOW DO THEY GET THE MONEY? My next question is: HOW DID THEY MANAGE TO UNDERMINE THE HONOR PROGRAM?

There is an easy remedy for the student question. No student will register for the program unless it is that they have permitted themselves to be DUPED. If no students register then the student instructors will have to go play school somewhere else.

But that still does not settle the question: How do they get the money and office space and supplies? Oh well, I believe that surely there are some people somewhere around the University who can, and I hope will, take care of that.

In the meantime maybe the persons who play school can go out and become a corporal and learn how to paint houses, those are the established prerequisites for those who would lead a revolution, I believe. Within the Experimental Studies Pamphlet the statement was made that they intend to win a revolution What I wonder is: Which one plans to become the DICTATOR?

Next question: Should these student instructors, or any other student, be permitted to DICTATE any portion of the curriculum of this University? If so, what are their qualifications? Do they draw a salary? If so, how much? If it sounds good enough maybe I could start a school within the University. It would be called, "STICK TO THE AUTHORIZED CURRICULUM," and study like H---. This would be a new program for many of us.

Sincere,
Juste Milieu
A Student

Book Swap For Extra $

Dear Editor:

It is good to see that we finally have a book swap at the Bookstore this semester. In the past, I have always decided to keep my books, instead of "selling out" to the bookstore at the end of the semester. The book swap is going to be sutdent run, with all profits going back to the students.

Book swaps at other colleges have worked out very favorably. At many of these colleges the students were allowed to price their books. If someone bought that book, all the money went to the owner. At last the students are going to get a fair deal in the re-sale of their books. It's nice to know that we will have a few extra dollars in our pockets this year.

J. Phelps

Chair Writes

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funding than they have received. I hope he will recall that Governor Reagan, not the faculty evaluation project, cut EOP funds. I can't quite understand how a nonfunded faculty evaluation program, designed to be of use for all students can have affected other programs.

The faculty evaluation program is based on the assumption that students can make more valid decisions about their education with information that they can without it. No one pretends that the current evaluation is perfect; I hope it will be improved. But your article constitutes a serious and irresponsible disservice to the University community. It throws more discredit on the Hornet than on the evaluation program; perhaps in the future you might consider checking your facts before going to press.

Peter Shattuck, Chair,
Faculty Senate

COME CELEBRATE MR.NIXON'S INAUGURATION WITH US !

by STEVE ULRICH

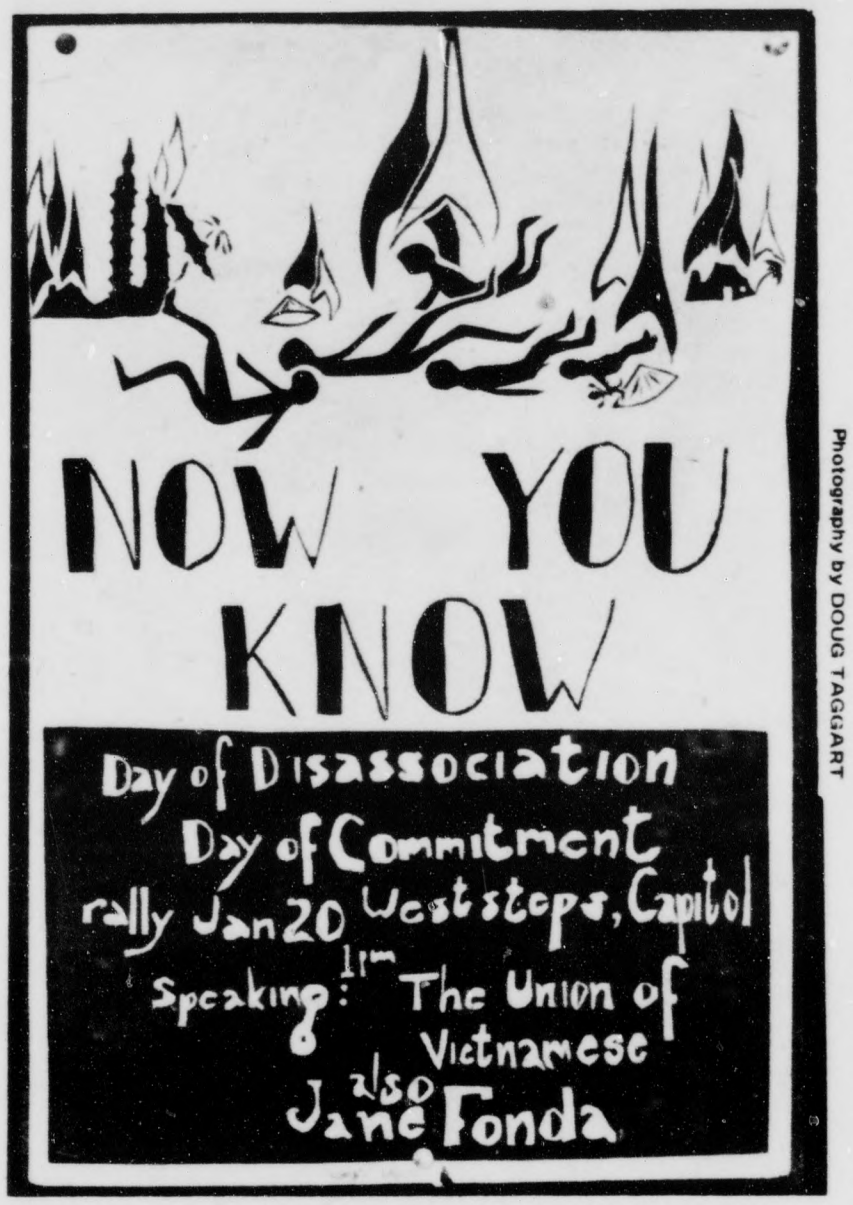
"In-HOG-uration," one sign proclaims.

"Day of DiSASSOCIATION, Day of COMMITMENT," reads another one. Richard Nixon's inaugural day is being anticipated with excitement–but not the kind he had in mind.

A coalition of local peace groups have planned an anti-war rally on the west steps of the State Capitol to correspond with the reinstatement of Dick to the presidency. It is their hope that this will give people a chance to commit themselves to the continuing work for peace, and continuing resistance to the present Nixon war policies.

Jane Fonda, who spoke at CSUS shortly before the "election," will be one of the speakers. She will cover many areas of the war, one being Medical Aid for Indochina. This is a group which is collecting funds for the reconstruction of Bach Mai hospital in Hanoi, which was destroyed by U.S. bombs in December.

It is hoped that this demonstration will show that the war hasn't been forgotten. It will show the politicians that we haven't forgotten them, that we still remember Henry Kissenger's "Peace Is At Hand," and how quickly peace got out of hand once Nixon got what he wanted. We haven't forgotten our POW's and MIA's. We haven't forgotten the bombing of women and children and even our own positons.



Photography by DOUG TAGGART

We have been falling down on our committment. The demonstration has become just another thing to do. Just an every-day occurance without much signifigance. Don't let this happen. It is important that we keep on with our work; yes, work. It is our duty to our country (what's left of it) to express what we feel If we let the pressure off of the administration, it could even get worse! Yes, it is possible!

If there is still any power left in the people, we must show it now. We have got to keep the pressure on the Congress to cut off Nixon's money. If they cut off his money he won't be able to play war games any more. He won't be able to use live pawns in his political-economic game of chess. My God, he may have to take up golf!

$31,000 Extra to Evaluations

cont. from page 1

contain evaluation information will have no name, only a number, attached to them. Shell says that he possesses the only copy of the code which matches the numbers to corresponding faculty names.

"Read-outs will be given back to individual faculty members by me on a one-to-one basis," said Shell.

How much of the evaluation will be printed?

"Whatever the individual faculty member will let us," replied Shell.

He later admitted that evaluations would be printed UNLESS individual faculty members specifically requested that theirs not be printed.

Chem Prof Initiates Sex Discrimination Suit

by LINDA SOLLEY

Is the Chemistry Department trying to maintain its all white male status quo or is it just asking reasonable care in the selection of its instrucotrs? These are the questions which are being asked in connection with the controversy revolving around Dr. Ruth Sime, temporary faculty member in Chemistry and Women's Studies. Dr. Sime asserts that she is the victim of male backlash to the Affirmative Action Program which all the departments at CSUS are supposed to implement. Department Chairman, C. Robert Hurley, contests the charge, contending there is no need for another full-time position at this time.

Dr. Sime earned a PhD from Harvard University in 1964 and has been teaching continuously since receiving her degree. She has published in scientific journals and is in the process of writing a textbook for lower division chemistry courses. She also participated in a U.S. government-sponsored program in science education in India. Her teaching assignment at CSUS includes undergraduate courses as well as a graduate course in X-ray Crystallography. More importantly, (for women, that is) she is teaching Women in Science, a course which has no counterpart in the nation. She is obviously qualified and no one seems to argue that fact.

The crux of the controversy seems to be whether there is a need for a permanent full-time instructor in the area of Phsycial Chemistry. According to Dr. Sime, the department determined that it needed an additional instructor in 1970 and then reversed itself when the Physical Chemistry section of the department formally recommended that she be hired for the spring 1973 semester. In addition, the Chemistry Department deliberately maintains one-third of its faculty positions in part-time appointments (the highest ratio of any department) in order to avoid having to hire full-time instructors under Affirmative Action principles. She points to crowded classrooms and the lack of evening classes as proof that additonal instructors are needed.

Dr. Hurley's position is that while there was a need in 1970 for a general Chemistry teacher to instruct courses in Chemistry 1A and 1B, this need has been eliminated because one of the existing instructors has taken over these classes. He defends the high ratio of part-time appointments by pointing out the nature of elementary chemistry classes. "All those labs have to be manned by graduate students who naturally are working part-time." He indicated that two instructors will be hired for the fall semester, but he wants to send job descriptions to all parts of the state to attract many applicants. "If we can find a woman or minority of equal ability (Dr. Sime, included), we will hire that person."

The answer to this debate will be determined, not on campus, but in a court of law. Dr. Sime has decided to initiate a suite against the university for sex discrimination in hiring.

The Hornet welcomes news and feature stories from all interested students
All articles are subject to editing and we cannot guarantee all stories will be used
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- ☐ Sauna bath
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- ☐ Study rooms
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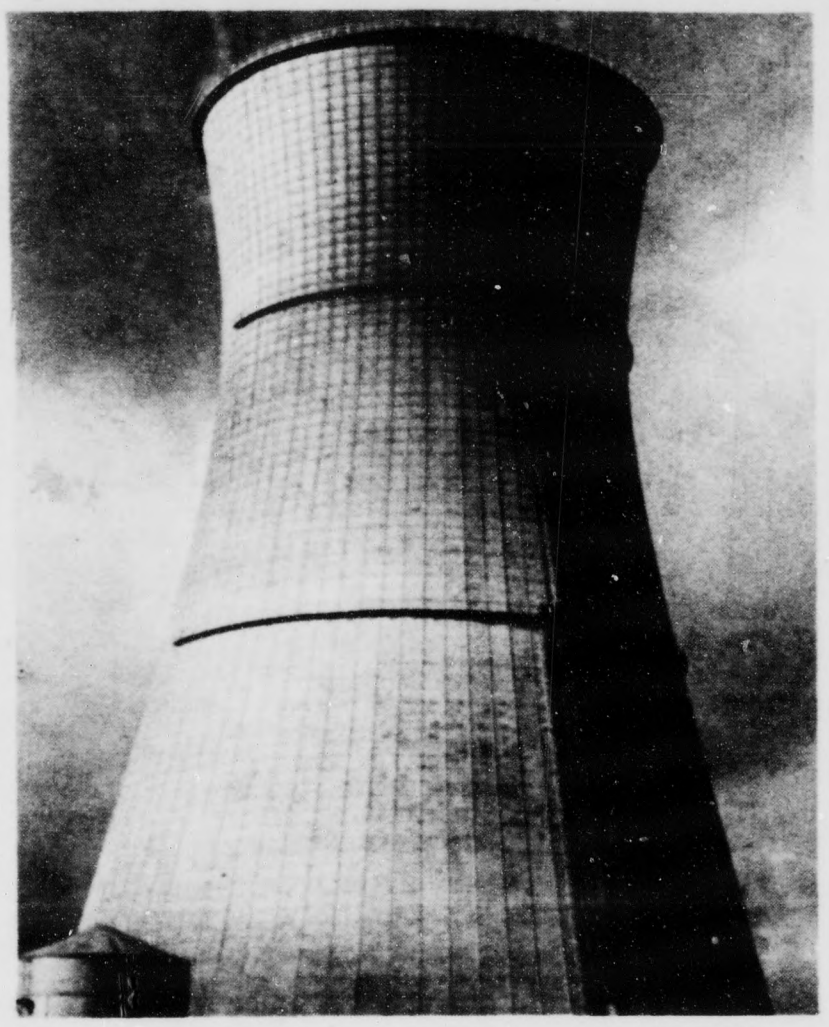
Scientists call Rancho Seco too dangerous to operate

by BRUCE McNITT

This past November, a representative from Sacramento Municipal Utility District stated in a television interview that the emergency cooling system at Rancho Seco was different from the ones at the other major nuclear plants being built in this country, and that the one at Rancho Seco was safer. SMUD personnel have on several occasions conceded that other plants have "problems," but they have consistently maintained that the hazards of other plants did not apply to Rancho Seco.

Two nationally prominent scientists, Henry W. Kendall and Daniel F. Ford, have now disputed this claim. In a letter they said that yes, Rancho Seco is slightly different from other plants, but that these differences do not make Rancho Seco safer, but rather more dangerous! (See letter on this page.) They concluded that, "...reasonable assurance of emergency cooling system effectiveness simply does not exist for the Rancho Seco Nuclear Power Station."

In an earlier phone conversation, Dr. Kendall stated that should the emergency cooling system be needed and fail, "...it is almost certain that a catastrophic radiation release would result." In an earlier report, they estimated that the amount of such a release could easily be from 50 to 100 times as much radiation as was released from the bomb dropped on Hiroshima.



The two scientists also stated that they did not believe the emergency cooling system at Rancho Seco could meet the interim criteria of safety set up by the Atomic Energy Commission, and encouraged a group of Sacramento citizens to continue in their request for hearings by the AEC.

Daniel Ford acknowledged in a telephone conversation, however, that such hearing have serious limitations, because of the extreme expense involved (estimates from persons who have participated in such hearing or supported them have ranged from $50,000 as a bare minimum, to over $300,000 to do a full scale effort), and the highly complicated and technical nature of these legal proceedings. He felt it essential, however, that citizens do what they can.

The full text of the letter is printed on this page, with a reply from SMUD on the opposite page.

Dear Sir:

We are responding to your request for technical information concerning Rancho-Seco Nuclear Power Station Unit 1. The nuclear reactor in the Rancho Seco Nuclear Power Station was manufactured by Babcock & Wilcox (B&W) and is of a design with which we have become familiar in the AEC hearings on emergency core cooling systems (ECCS) that have been taking place in Bethesda this year.

To answer your request for information concerning Rancho-Seco, we have taken the opportunity to review the Final Safety Analysis Report (FSAR) for that plant and, in particular, the sections dealing with the safety injection systems (ECCS).

We have also attempted to find a discussion of reactor vessel failure in the FSAR, but apparently it is not included. The subjects that should be discussed here include the missile generation that would result from a reactor pressure vessel failure, and the containment floodability. We suggest that you ask the Applicant (Sacramento Municipal Utility) for what, if any analysis he has done on the question of reactor pressure vessel failure and what, if any, safeguards he has provided to handle such an occurence. Under the AEC's Memorandum and Order in the Matter of Consolidated Edison Company of New York (Indian Point No. 2), Docket No. 50-247, dated 26 October 1972, consideration of reactor pressure vessel failure and the necessity for safeguards to protect the public in such an event can be a legitimate part of a licensing hearing. During the discovery stage of the hearing, you have an opportunity to demand that both the Atomic Energy Commission and the Applicant and the nuclear steam system supplier (B&W) produce all documents in their possession dealing with the question of reactor pressure vessel failure. We encourage you to do so.

The frailities in Babcock & Wilcox ECCs were discussed at great length in the hearing together with problems associated with the products of the other pressurized water reactor manufacturers. There is no significant difference in the design of B&W ECCS and those of other pressurized water reactor manufacturers, except for one aspect of the design of B&W plants that makes them somewhat more susceptible to ECCS failures. This feature of B&W plants relates to the direct injection of emergency cooling water into the reactor vesse downcomer. Should the emergency cooling line penetrating the vessel rupture between the check valve and the vessel, a loss-of-coolant accident would result in which the emergency cooling water tank connected to the ruptured line would not be able to provide coolant. Analyses have been performed to determine the consequences of a break in this emergency cooling line that indicate that clad melting would ensue. It would thus be our expectation that the emergency cooling systems at Rancho-Seco would not meet the AEC's present criteria for acceptable emergency core cooling systems.

The fact that Rancho-Seco may not meet the AEC's Interim Criteria is stated here without any intent to acknowledge the validity of those Criteria as the basis for determining ECCS adequacy. The AEC's present Criteria have been substantially discredited, inasmuch as AEC experts have expressed substantial doubt about the technical support for those Criteria. As you know, the determination of ECCS effectiveness is based on the predictions of mathematical models programmed on computers. The head of the AEC branch that supervised the reports by reactor manufacturers on their evaluation models has declared such models, expecially those of B&W, as being crude and immature analysis tools (testimony of Dr. Morris Rosen at ECCS Rulemaking Hearing). In an internal memorandum dated the same time as the promulgation of the AEC's ECCS design criteria (June 1971), Dr. Rosen wrote:

"...the consumafe message in the accumulated code outputs is that the system performance cannot be defined with sufficient assurance to provide a clear basis for licensing."

The AEC Regulatory Staff claimed in its direct testimony at the ECCS hearing (dated December 28, 1971) that it had been able to cover up the uncertainties in the predictions of what would happen in an accident by making "conservative" assumptions part of the mathematical predictions, i.e., assumptions would predict more overheating of the core than would actually taken place during an accident. However, as a result of the hearing, the AEC Regulatory Staff has determined that the hearing has "in several cases suggested the need for additional conservatism" (AEC Supplemental Testimony, October 26, 1972; emphasis added). During cross-examination in November of 1972, the Regulatory Staff testified that it simply did not know whether the accidents in which the core temperature was predicted to be controllable would in fact be controllable.

Thus it is apparent, based on the testimony of AEC expert witnesses, on AEC internal memoranda, and on the AEC's own admissions concerning the uncertainty in the mathematical predictions, that reasonable assurance of emergency cooling system effectiveness simply does not exist for the Rancho-Seco Nuclear Power Station.

We believe that the large number of unresolved reactor safety questions makes the present operation of large commercial nuclear power stations an unacceptable hazard to the public. Recognition of this fact is spreading as the necessary data concerning safety problems is forced out of the AEC by groups of concerned citizens and scientists. The RAND Corporation of Santa Monica, California has recently recommended a "go-slow" policy on nuclear power until the safety and waste disposal problems are resolved. We believe this recommendation is the only reasonable position that can be taken in light of the appreciable dangers of a major nuclear reactor accident.

Yours truly,
Daniel F. Ford
Henry W. Kendall

Henry Kendall teaches nuclear and high energy physics at the Massachusetts Institute of Technology. Daniel Ford is Coordinator of environmental research, Harvard Economic Research Project.

STUDENT MEDICAL INSURANCE –NOTICE–

THOSE STUDENTS WHO TOOK OUT "FALL ONLY" COVERAGE, YOUR POLICY EXPIRES ON FEBRUARY 12, 1973.

RENEWALS AND NEW APPLICATIONS WILL BE ACCEPTED IN THE ASSOCIATED STUDENTS BUSINESS OFFICE (ROOM AS 151) COMMENCING ON JANUARY 2, 1973.

THE PERIOD OF COVERAGE WILL BE FROM JANUARY 29, 1973 (OR THE DATE PAYMENT IS RECEIVED, IF AFTER JANUARY 29. 1973) THRU AUGUST 31, 1973. THE SPRING ENROLLMENT DEADLINE IS MARCH 14, 1973.

(PREMIUM DEPENDS ON COVERAGE SELECTED BELOW)

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FOR FURTHER INFORMATION CONTACT THE A.S.I. BUSINESS OFFICE (AS 151) OR PHONE 454-6276.

Alternatives to Nuclear Power

by BRUCE McNITT

Although the subject of alternatives to nuclear power is extensive, and must be covered in greater detail than can be done in this issue of the Hornet, we are listing a few items of importance. Many alternatives exist. Briefly, they can be classified into two categories: those relating to a reduction in consumption of electricity, and those regarding ways to provide alternate sources of electricity.

A few of the many ways to reduce consumption include the following items. Proper construction of homes would greatly reduce the need for air conditioning in the summer peak demand time. For example, I live in an old house that has shade trees and good insulation. Every room in the house has a door or window on the south, and one on the north. When the evening breeze comes up in the summertime, I simply open all the windows, and what heat has accumulated leaves quickly. It is cooler in that house, without air conditioning, than it was in the apartment I lived in two years ago with air conditioning.

As another example, SSU Physics professor Homer Ibser lives in an adobe house, which stays cool naturally. He reports that the temperature has been as much as 26 degrees cooler inside his house on hot summer days than outside. Unfortunately, most houses and apartments that are built today are not designed so as to be ecologically sound, but are planned to make maximum profit margins for the developers.

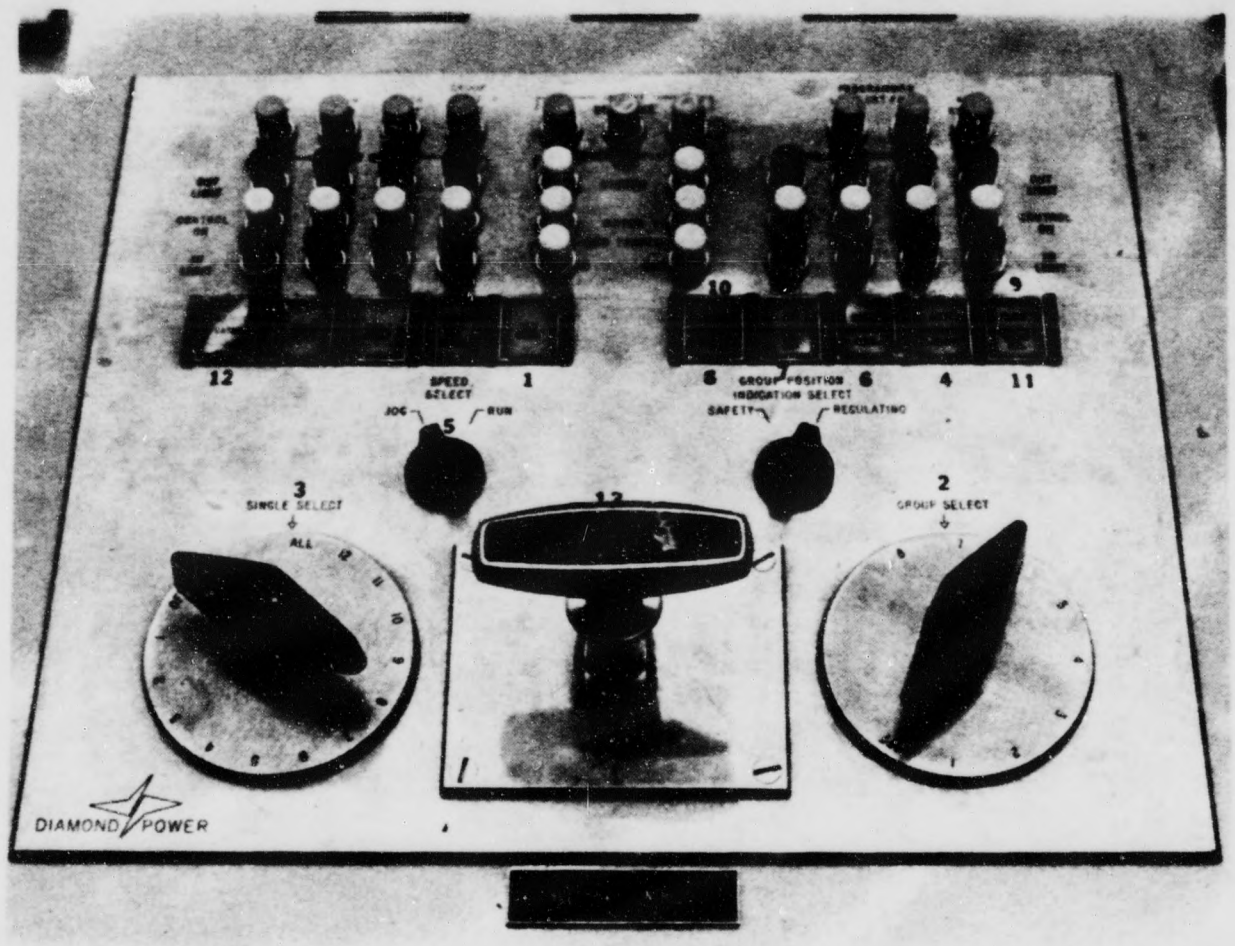
This is only one of many, many examples of ways in which proper planning can prevent us from facing disaster from nuclear power plants, or from an energy crisis largely promoted by the utilities.

A few alternate sources of electricity include: geothermal power, from underground steam, which has the potential to supply very large amounts of electricity, Unfortunately, this has so far been given very little research money. (In 1970, the U.S. government spent $0 on geothermal research, but hundreds of millions on nuclear research.) The financing is now improving a little.

Solar energy can be used for many purposes, such as home heating and cooling, and possibly generation on a large scale for other uses. Many utilities are claiming that development will take 10 or 20 years or more. Once again, however, this alternative has been receiving very little research money, $0 for 1970, and little more now. In spite of so little research money, a few people have developed systems that are adaptable for the standard home, and which can store electricity for up to 12 days in times of heavy overcast. In addition, Japan has over a million solar hot water heaters, and California and Florida used to have many until natural gas replaced them.

"There is an understandable drive on the part of men of good will to build up the positive aspects of nuclear energy because the negative aspects are so distressing."

Dr. Alvin Weinberg
Director, Oak Ridge National Laboratory (1956)



Near Nuclear Disasters

by JANICE YANDEL

I toured the Nuclear Power Plant at Rancho Seco this fall. I'm convinced that SMUD is being extremely conscientious in its approach to the safety aspects of the Nuclear Power Plant. SMUD is even planning to store the radioactive waste, tritium which is being released by other power plants around the country. Dan Whitney, the head nuclear engineer at Rancho Seco has told me that SMUD is sparing no expense to assure the safety of this particular plant. I have no doubt that Mr. Whitney sincerely believes that accidents can be prevented.

Unfortunately, I cannot share Mr. Whitney's optimism. I have compiled a list of nuclear accidents that have already occurred. None of these accidents were planned; some accidents were due to economic shortcuts, others resulted from the human element. It is because humans are fallible, careless, and sometimes demented, that it is unreasonable to assume we will achieve a miraculous 99.99% success in the radioactive containment operation year in and year out.

There have been 33 accidents in nuclear history. The industry insists on calling these accidents "incidents" or "occurances". Of course that implies they aren't really important. I would like to inform you of a few "incidents".

The AEC (Atomic Energy Commission) licensed the construction of the Enrico Fermi Plant in Monroe, Michigan, over the objections of its own advisory commission on reactor safeguards. The construction of this plant was strenuously opposed by people in Michigan. Their opposition failed and the plant was built.

In 1966 an accidental partial meltdown of the reactor core nearly blew the plant up. A University of Michigan study later calculated that the radiation released by such an explosion could have killed as many as 133,000 people. The partial meltdown happened because someone attached a sheetmetal flow guide to prevent the core from melting down! Chalk that one up to human error.

On November 4, 1971 arson caused 10 million dollars worth of damage to the Indian Point 2 nuclear power plant, near New York. The fire occurred only 4 days before the plant was scheduled to have nuclear fuel installed. That one was due to sabotage.

The San Onofre Plant is only 4 miles below San Clemente. It has experienced 3 "incidents". The first was in 1968, when overloaded power cables caught fire. The fire was extinquished but it took 12 days to repair the damage. When the plant resumed operation the 45 control rods were pulled out of the reactor. Unfortunately one of the rods malfunctioned and did not rise. The malfunction showed up on the control panel but was ignored because the control

con't on page 6

SMUD'S REPLY

Dear Mr. McNitt:

The letter from Daniel F. Ford and Henry W. Kendall, which you have made available to us, argues that the AEC's present criteria for emergency core cooling systems have been substantially discredited and that the systems at Rancho Seco may not meet those criteria.

The Sacramento Municipal Utility District answers that the present ECCS criteria were issued on an interim basis, and the AEC is now holding hearings to determine whether they should be modified. It may be that those hearings will result in some modifications in the interim criteria. However, this will not be known until the hearings are completed and a decision is rendered.

Before Rancho Seco is licensed, SMUD's application must be reviewed by the AEC's Advisory Committee on Reactor Safeguards, a 15-member board of experts, each appointed for a term of four years. SMUD will be required to satisfy that committee that Rancho Seco's emergency core cooling system, as well as all of its other safety related systems, meet all criteria and other requirements established by the AEC. If the AEC's present ECCS criteria are changed as the result of the hearings now being conducted, SMUD will be required to satisfy the changed criteria.

Sincerely,

Douglas Johnson
Public Information Representative
Sacramento Municipal
Utility District

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Gymnastic Event Draws Alumni

by SHARON RATCLIFF

Thursday night, the Men's Gym is the place to be. That is, if you appreciate the beauty of gymnastics. The program is centered around the Women's Gymnastic Squad, and it will be full of talented people with an evening of superb exhibition and competition.

Some members of the Alumni Squad who will be returning to participate are: Bobbie Dwarkis, a former member of the first team to participate in the Nationals in 1967; Tina Liskum, former state tumbling and free exercise champ; Barbara Parchers, 1970 Collegiate National Champion; and Joyce Hashimoto, former member of the 1970 squad to go to the Nationals in Salt Lake City.

Of the present team under the direction of Miss Kathy Shelly, some of the outstanding member include: Vannessa Joe, member of the 1972 squad to go to the Nationals in Des Moines; Janet Biaggi, returning this year; and Lisa Barber, also a member of the team selected to participate in Des Moines in 1972.

Scheduled for Thursday night are many things. You will be able to see exhibition work, in which the women's events will be compared to men's. After each event the gymnasts shall compete: Alumni versus team of '73. CSUS will assume a gold color while the Alumni team will be known as the green.

Events will begin at 7:30. A donation of $.50 will be requested. Remember, this is the First Annual meet of this kind so let's all help to make it a success.

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ALTERNATIVE FEATURES SERVICE

Nuclear Disasters

con't from page 5

panel had misfunctioned before. It took 19 days to discover this critical rod had actually fallen into the reactor.

When that problem was fixed an electrical cable failure started a fire in the switch gear room. The plant was shut down for the third time. But a problem occurred while shutting it down—the automatic boron injection system completely failed! The boron had to be injected manually. It should be noted that these mechanical failures occurred in a plant that boasted about how much care had been put into its safety features.

The owners of San Onofre had advertised that the plant could withstand the most severe earthquake ever known in Southern California. That sounded fine until February 9, 1971 when a previously inactive fault north of Los Angeles erupted. This quake reveled ground accelerations reaching nearly the force of gravity. This was double the .5G, earth quake resistance factor the San Onofre plant was designed to withstand.

Perhaps the dirtiest power plant is owned by PG&E. It's the Humboldt Bay plant near Eureka, California. This plant continually has released radiation far above the AEC's criteria. One reason for the radiation releases was economic. PG&E was so anxious to make nuclear prices competitive, that they used stainless steel rods (to hold the uranium pellets) rather than rods made form zircaloy, which is much safer.

When the stainless steel cracked, the plant was releasing 85,000 microcures of radiation per minute. The AEC only allows 50,000 microcures to be released. This condition was allowed to continue for 3 months, before the plant shut down. Replacing the rods did not solve the problem. The plant was still releasing too much radiation. So with all the audacity that big business is prone to have PG&E simply asked the AEC to raise their dosage allowances!

Fortunately the AEC denied their request, but at the same time granted PG&E the license to build two more plants.

Although SMUD hopefully will not show such irresponsibility, the event is another example of what can easily happen. Other tragic accidents have occurred in the short life of the nuclear power plants. Three technicians were killed while working on the SL Reactor at Idaho Falls, Idaho. One victim died when a control rod shot out of the reactor and impaled him on the ceiling. The others died from radiation exposure.

The nuclear industry has one case after another where deer, fowl, or fish have been contaminated and allowed to spread that contamination. Workmen have also died and spread radioactive contamination to their homes.

There are severe deficiences in the nuclear industry, just as there are in every other human technology. Please consider that even though we applied care, love, and our finest technology available to the Apollo program, about 10% of the missions failed, due to something simple like a faulty switch. In one incident, 3 astronauts died on the launch pad.

The military has trouble with key systems; in February 1971 the North American Air Defense Command sent a fully authenticated national emergency alert out over the AP and UPI wires...by mistake! In May 1969 a 50 million dollar submarine sank at dockside. Two nuclear submarines are now lying at the bottom of the ocean, along with the "unsinkable" Titantic. And in spite of the mathematical odds against it, two airlines collided in the wide open space above the Grand Canyon.

All these examples show the imperfection of even the best of American technology. In the case of nuclear power, such imperfections could kill tens of thousands of people.

There are alternative solutions to the power crisis. It is not too late to stop the burgeoning nuclear power industry. Raise your voices and demand that the nuclear gamble with your lives be stopped now.

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Fred Ball

Enamelling, Too Long Associated with Ashtrays, Is Full-Fledged Technique

by HAL RUBIN

Authors have varying reactions to seeing their books in print. Fred Ball, who is working on his master's degree here at CSUS, couldn't bring himself to open the package from his publisher until several hours after it arrived.

He was probably experiencing the newly published author's syndrome, but he has a right to be proud of his book. Its title is: "Experimental Techniques in Enamelling", and the publisher is Van Nostrand Reinhold.

The book sells for $9.95 and has 144 pages, with numerous black and white and color illustrations. For those who aren't artists, enamelling is the process of fusing glass to metal under high heat for functional or art purposes.

Ball, who is 27, comes by his art talent naturally. His great grandfather worked as a silversmith; his father is a well known potter; and his mother is a painter and book illustrator. Both of his parents taught at Mills College.

When he was 12, Ball showed his first enamelling work at the California State Fair. He had his first one-man show at a Sacramento art fall gallery when he was 16.

The young artist strongly believes that enamelling is too often considered a hobby and is associated with ashtrays, earrings, and salad bowls. Actually, it is a 2500-year-old technique and a full-fledged art medium. Ball's current works are being exhibited in the same manner as paintings.

His enamelling works have been displayed in more than 90 exhibitions and one-man shows here and in Europe, and are included among many European and Asian collections.

Along with his art studies at CSUS the past few years, Ball took some journalism courses. He had a New Journalism class with Bill Dorman and a magazine writing course with Hal Rubin. The classes encouraged him to submit articles on enamelling to Craft Horizons, Ceramics Monthly, and other magazines.

After these articles were printed he was contacted by Van Nostrand Reinhold to write his recently published book.

Along with his writing and art activities, Ball has found time to teach enamelling at the University of Colorado and California State University at San Diego. Currently some of his work is on display at Jennifer Pauls Gallery, 2nd and K, in Old Sacramento. The show will continue until January 20.

Ball was recently in New York, where he was the guest of a seminar investigating the establishment of a national endowment for the craft movement in the United States. While he was there he also arranged for a national invitational exhibition of enamels at the Fairtree Gallery in New York.



Fred Ball, Artist and Author

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I'm leaving for Arkansas the first week in Feb. I need someone to hitchhike with me, or share a ride with me, to or near Ark. If driving, I can share expenses. Emily, 482-6687

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Perspectives in Economics (Econ. 8 & 108) is a 1-3 unit course based primarily on attendance (5, 10, or 15 weeks). Dealing with social issues such as poverty, racism, consumer problems, the course features different points of view on many topics of current interest. For further information, contact Bill Kerby, CSUS Department of Economics, 454-6143.

Don't feel so good? Flu got you down? Well it's too late to protect yourself but maybe you'd like to save for family and friends from the "heatbreak" of the flu. Send them down to the Department of Motor Vehicles at 24th Street, between the hours of 6:30 and 9 pm, January 23 so they can get a flu shot. This is a service offered you by CSEA Health Inc. at the cost of $2.00 per shot or a family of 4 or more for just $8.00.

American Express Money Orders are now available at the ASCSUS Business Office, AS151. Money Orders can be made for up to $200 at a flat rate of 35 cents per money order.

The Foreign Language Department of Consumnes River College is in need of persons knowledgable in French, German or Spanish to serve as tutors on a volunteer basis. Information may be obtained by phoning Elly Rogers at 421-1000 ext. 350 or Elaine Rees, ext. 336.

ATTENTION ALL STUDENTS INTERESTED IN WOMEN'S STUDIES CLASSES

Due to an administrative error some of the women's studies core courses for spring 1973 were not advertised as G.E., Group III credit. Consequently a few of these courses have dropped in enrollment. The following courses are G.E., Group III and are still open for enrollment: I.A.S. 124, "Performance: A Woman's Art Form;" I.A.S. 126, "Politics of Women in Art;" I.A.S. 128, "Image of Women in Music;" and I.A.S. 121, "Women's Movement, Advanced Theory and Practice." For those of you who were interested in I.A.S. 120, "Introduction to the Women's Movement" (as there was an over-enrollment), I.A.S. 122 "Sociological Perspectives on the American Woman" is still open and if you come on the first day we can add you. In fact, coming the first day to any of t e above classes seems to be the best way to add them. Please spread the word to your friends as well. Perhaps all this hassling will be straightened out by next fall.

Offered for spring semester at Consumnes River College will be an evening auto mechanics class for women only entitled "Mechanics 291 – Familiarization with Automobiles".

Elton McCoy with an auto mechanics staff member at the college will instruct the class, that will meet once a week beginning Thrusday, February 8, 1973.

The course will include the principles and operation of the car engine, chassis and accessories. It is designed to help women understand how and when mechanical problems can be solved.

The course is non-graded and the fee is $10 for adults.

If you or a group are interested in having an art show in the "Student Gallery" next semester, come to the meeting on Wednesday January 17th, at 12 noon in Room 113 of the Art Department.

Bigfoot may be alive and well in Soviet Union

Does Bigfoot, the hairy man-like creature said to roam the Pacific Northwest have any relation to the mysterious Himalyan yetis or the Soviety Dawn Man?

Science Digest October, 1972 reports that over 600 sightings from the 1800's to 1967 are being computerized to verify Bigfoot's existence.

There's been a fake film and fake footprints planted by hoaxers, but Roger Patterson of Yakima, Washington, founder of the Northwest Research Association, has apparently produced an authentic film. He also states the Soviet Union has an 80 man team in the Caucasus seeking a similar creature which they call Dawn Man. From more than 2000 claimed sightings, the Soviets have screened out all but 300 which they accepted as reliable enough to justify further research.

Apparently these sub-human creatures inhabit the most remote mountainous areas. The American Bigfoot has many Indian names dating back hundreds of years. One of the most descriptive is the Klamath Indian "Oh-Mah," which means "devil that walks at night."

Bigfoot is most commonly known by the Canadian Indian name "Sasquatch." It's against the law to kill a Sasquatch – you can get five years in jail and a $10,000 fine in Skamania County, Washington. This makes Bigfoot the first form of wildlife protected before its existence is proven but the search goes on.

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